CLAIMS

What is claimed:

1	1. A method for organizing and aiding the interpretation of gene data, said method
2	comprising the steps of:
3	receiving gene names;
4	associating the gene names to gene-word pair relationships; and
5	grouping the gene names with high strength of gene-word relationships, the strength of
6	the gene-word relationships corresponding to the relatedness in function of corresponding
7	grouped genes.
1	2. The method of claim 1, wherein the receiving gene names includes receiving alia
2	names for the gene names.
1	3. The method of claim 1, further including querying the gene names in a literature
2	database.
1	4. The method of claim 3, wherein the receiving includes, responsive to the query o
2	the gene names in a literature database, receiving abstracts comprising the gene names.
1	5. The method of claim 4, further including generating a background set and a query
2	set from the returned abstracts.
1	6. The method of claim 5, further including calculating word frequencies in the
2	query set and the background set.
1	7. The method of claim 6, further including providing a numerical value calculated
2	for each word in which a word frequency was calculated for the query set.

1	8. The method of claim 7, wherein the providing includes calculating z scores.
1	9. The method of claim 7, wherein the providing includes using term frequency-
2	inverse document frequency methods.
1	10. The method of claim 4, further including stemming words of the returned
2	abstracts.
1	11. The method of claim 10, further including filtering the stemmed words using a
2	stop list.
1	12. A system for organizing and aiding the interpretation of data, said system
2	comprising:
3	a memory with logic; and
4	a processor configured with the logic to receiving gene names, said processor further
5	configured with the logic to associate the gene names to gene-word pair relationships, said
6	processor further configured with the logic to group the gene names with high strength of gene-
7	word relationships, the strength of the gene-word relationships corresponding to the relatedness
8	in function of corresponding grouped genes.
1	13. The system of claim 12, wherein the processor is further configured with the logi
2	to generate keywords that describe the common function of each group.

1	14. A system for organizing and aiding the interpretation of gene data, said system
2	comprising:
3	means for receiving gene names;
4	means for associating the gene names to gene-word pair relationships; and
5	means for grouping the gene names with a similar strength of gene-word relationships, the
6	strength of the gene-word relationships corresponding to the relatedness in function of
7	corresponding grouped genes.